

SEQUENCE LISTING

<100> MAFIP, Toyoki et al.

<110> Method for typing HLA class I antigen

<120> PCT/EP-98/0158

<140> US 697656,662

<141> 2001-05-24

<150> JP P1998-335151

<151> 1998-11-26

<160> 130

<170> PatentIn Ver. 2.0

<210> 1

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: cDNA probe A98T

<400> 1

ggatatttc ttccatctcg tgt

<210> 2

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: cDNA probe A98A

<400> 2

atgaggattt ttacaccc tc cgtgt

25

<210> 3

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: cDNA probe A160A

<400> 3

ttcgtggaca acacggca tt

19

<210> 4

<211> 15

<212> DNA

<213> Artificial Sequence

<220>





<4> 14  
<210> 14  
<211> 19  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:DNA probe  
A362TA

<4> 15  
ttttccatgttcatatgg 19

<210> 16  
<211> 19  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:DNA probe  
A362TT

<4> 16  
ttttccagat ttgttttgj 14

<210> 17  
<211> 16  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:DNA probe A368A

<4> 17  
gaggatgtat ggctgc 16

<210> 18  
<211> 16  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:DNA probe A368G

<4> 18  
gaggatgtgt ggctgc 16

<210> 19  
<211> 16  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:DNA probe A368T

<400> 14  
<401> TTTT TTTT TTTT

14

<210> 15  
<211> 16  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:DNA probe A402G

<400> 20  
CGCTTACGCG GCGCG

16

<210> 21  
<211> 17  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:DNA probe A423T

<400> 21  
TGGGACGTTT AGTGTTG

17

<210> 22  
<211> 16  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:DNA probe A448C

<400> 22  
ATATGCCCTG AAAGAG

16

<210> 23  
<211> 16  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:DNA probe A485A

<400> 23  
GGGGACAAGG TGTGTC

16

<210> 24  
<211> 16  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:DNA probe A524G

<400> 24  
GGGGCCCTTG TTTTTT

16



<210> 30  
<211> n  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:DNA probe A655T

<400> 30 16  
tacctggatg qcacgt

<210> 31  
<211> 16  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:DNA probe A559G

<400> 31 16  
tggatggcga gtgcgt

<210> 32  
<211> 16  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:DNA probe  
A570CG

<400> 32 16  
tcgtggacgg gctccg

<210> 33  
<211> 15  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:DNA probe  
A570GT

<400> 33 15  
gcgttgtgtg gctcc

<210> 34  
<211> 17  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:DNA probe A779A

<400> 34 17  
caggcctgaa gggatg

1. *Artemia* sp. 2. *Brachionus* sp.  
3. *Daphnia* sp. 4. *Chydorus* sp.  
5. *Calanoida* sp. 6. *Cladocera* sp.  
7. *Rotifera* sp. 8. *Amphipoda* sp.  
9. *Isopoda* sp. 10. *Crustacea* sp.

<END> Description of Artificial Sequencing probe AR13A

agdagagata austriaca

三

- Z100 36
- Z110 17
- Z120 DNA
- Z130 Artificial Sequence

42202  
42234 Description of Artificial Sequence:DNA probe RII

1400 > 36  
tacqaggaag gagaqoqo

17

4210- 27  
4211- 18  
4212- DNA  
4213- Artificial Sequence

## Description of Artificial Sequence: cRNA probe B13

<400> 37  
a**a**c**cc**g**aa**ca t**ga**agg**cc**

10

<210> 38  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<221> Description of Artificial Sequence:DNA probe BL4

<400> 38  
acacagatct ccangaaa

1

<210> 39  
<211> 19  
<212> DNA  
<213> Artificial Sequence

<210>  
<223> Description of Artificial Sequence:DNA probe B15

<4001-39

三

$\sim 210 \times 40$



1973年1月2日

1

<210> 40  
<211> 14  
<212> DNA  
<213> Artificial Sequence

<220>  
<221> Description of Artificial Sequence:DNA probe RL35

<400> 46  
gcttcgtatcataaccat

<210> 47  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:DNA probe BL36

<210> 48  
<211> 19  
<212> DNA  
<213> Artificial Sequence

<222> Description of Artificial Sequence:DNA probe BL37

<400> 48  
ttccaaatgtca tatacggtct 19

<210> 49  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:DNA probe B13

<400> 49  
acacccatcca ttttgttgtgg 29

<210> RNA  
<211> RNA  
<212> DNA  
<213> Artificial Sequence

530







Results from the simulation of Artificial Microsatellite DNA probe hybridization

- 2202
- 2203 Description of Artificial Sequence:DNA probe B113-45

• 400: 66  
pārādēggā pāges .

<210> 67  
<211> 17  
<212> DNA  
<213> Artificial Sequence

- 223 Description of Artificial Sequence:DNA probe  
PLBSSG

<406> 67  
maucaggac agagom 17

<210> 68  
<211> 16  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:DNA probe CC

<400> 68  
tgggtggagc aggagg

<P10> 69  
<A11> 24  
<A12> DNA  
<A13> Artificial Sequence

<2200<2230 Description of Artificial Sequence:DNA probe A-12

24  
out jaagtat ticht dicht niet

<110> 70  
<111> 19  
<112> DNA  
<113> Artificial Sequence

<210> 71  
Sequence Description of Artificial Sequence:DNA probe A-2

<211> 13  
atgtttttt tttttttttt  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:DNA probe A-3

<210> 72  
atggaggattt ttcccaacata cgg  
<211> 19

<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:DNA probe A-4

<210> 72  
tcggatgtttt tgacacacgc

<211> 13  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:DNA probe A-54

<400> 73  
gtattttttttt acggccgtgt c

<210> 74  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:DNA probe B-1

<400> 74  
tggatgttgtt atggggaa  
<210> 15  
<211> 14  
<212> DNA  
<213> Artificial Sequence

<220>

<210> Description of Artificial Sequence:DNA probe B-1  
1000 > 76  
<211> 16  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:DNA probe C-12  
1100 > 76  
gatccgggttttggatc  
<210> 77  
<211> 14  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:DNA probe C-24  
1200 > 77  
ggccgggttttttttttt  
<210> 78  
<211> 15  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:DNA probe C-33  
1300 > 78  
gaggcggctgttttttttt  
<210> 79  
<211> 15  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:DNA probe C-43  
1400 > 79  
ggccggcgaaaatggcc  
<210> 80  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:DNA probe 134-a

<4> 81  
<222> Description of Artificial Sequence  
  
<210> 81  
<211> 13  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence:DNA probe  
134-AZ  
  
<4> 81  
<222> Description of Artificial Sequence  
  
<210> 82  
<211> 20  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence:DNA probe  
353TCAl  
  
<4> 82  
<222> Description of Artificial Sequence  
  
<210> 83  
<211> 16  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence:DNA probe 343A  
  
<4> 83  
<222> Description of Artificial Sequence  
  
<210> 83  
<211> 19  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence:PCR primer  
A2-5T  
  
<4> 84  
<222> Description of Artificial Sequence  
  
<210> 84  
<211> 18  
<212> DNA  
<213> Artificial sequence  
  
<220>  
<223> Description of Artificial Sequence:PCR primer

$\hat{F}_1 = \frac{1}{2} \hat{F}_2$

<400> 90  
 <210> Description of Artificial Sequence:PCR primer  
     CGA011  
 <211> 46  
 <212> DNA  
 <213> Artificial Sequence  
  
 <400>  
 <210> Description of Artificial Sequence:PCR primer  
     CGA012  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence  
  
 <400>  
 <210> Description of Artificial Sequence:PCR primer  
     AIn3-66C  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence  
  
 <400> 91  
 <210> 91  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence  
  
 <400>  
 <210> Description of Artificial Sequence:PCR primer  
     AIn3-66C  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence  
  
 <400> 92  
 <210> 92  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence  
  
 <400> 93  
 <210> 93  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <400> 93  
 <210> 93  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <400>  
 <210> Description of Artificial Sequence:PCR primer  
     SBIN1-TA  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <400> 93  
 <210> 93  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <400>  
 <210> Description of Artificial Sequence:PCR primer  
     SBIN1-CG  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <400> 94  
 <210> Description of Artificial Sequence:  
     d(GATCC)  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

and the DNA  
and RNA  
and the additional components

Table 4. Description of Artificial Sequence PCR primer  
SPINS-3'

• 400, • 41

• 2.12 • 96  
• 2.11 • 21  
• 2.10 • DNA  
• 2.13 • Anti-fibrin

- 223 -  
- 223 - Description of Artificial Sequence:PCR primer  
5'GCTGATTC-3' 34C

400-96

• 2110 • 97  
• 2111 • 21  
• 2112 • DNA  
• 2113 • Artificial Sequence

<222>  
<223> Description of Artificial Sequence: PCR primer  
SBCIn3'7-24g

<400> 97  
gagggaaggag gcttctgcgg a  
  
<210> 98  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<221> description of Artificial Sequence:PCR primer  
RPCIn3-12

33-1118-98  
BGA-111111-aaggetcccc-ant

<210> 99  
<211> 21  
<212> DNA  
<213> Artificial Sequence

• 223 • Description of Artificial Sequence:PCR primer  
ACGATGCTT-34a2

- 40 -



## ANSWER

4

< 211 > 16  
< 212 > 1MA  
< 213 > Arithmetical Sequence

#### Description of Artificial Sequences:DNA probe A468P

<2> 106  
<2> 16  
<2> DNA  
<2> Artificial Sequence

• 02282 Description of Artificial Sequence:DNA probe A45-1A

<100-106  
rectangular stadia

• 10 - 107  
• 11 - 14  
• 12 - DNA  
• 13 - Artificial Sequence

<828>  
<423> Description of Artificial Sequence:DNA probe A502C

```
<210> 108  
<211> 19  
<212> DNA  
<213> Artificial Sequence
```

<seq>  
<seq> Description of Artificial Sequence:DNA probe  
AGTGTG

<210> 109  
<211> 21  
<212> DNA  
<213> Artificial Sequence

• 11 • 2004

<210> 110  
 <211> 16  
 <212> DNA  
 <213> Artificial Sequence  
  
 <210>  
 <213> Description of Artificial Sequence:DNA probe BL57  
  
 <400> 110  
 tggatgtt tttttttt 17  
  
 <210> 111  
 <211> 16  
 <212> DNA  
 <213> Artificial Sequence  
  
 <210>  
 <213> Description of Artificial Sequence:DNA probe BL77  
  
 <400> 111  
 tgtagtgaa ttgttgtt 16  
  
 <210> 112  
 <211> 16  
 <212> DNA  
 <213> Artificial Sequence  
  
 <210>  
 <213> Description of Artificial Sequence:DNA probe  
 BL272A  
  
 <400> 112  
 acagatctac aagaccaa 18  
  
 <210> 113  
 <211> 16  
 <212> DNA  
 <213> Artificial Sequence  
  
 <210>  
 <213> Description of Artificial Sequence:DNA probe  
 BL263T  
  
 <400> 113  
 tcggggatata cccatctc 19  
  
 <210> 114  
 <211> 16  
 <212> DNA  
 <213> Artificial Sequence  
  
 <210>  
 <213> Description of Artificial Sequence:DNA probe  
 BL264A



1991-1992 Academic Year

- 1 -

• 11. 8. 1966  
S. 118-18  
S. 118 - DNA  
S. 118 Artificial sequence

• 2236 Description of Artificial Sequencing DNA probe  
C2066gR

14000-120  
jägt derapia oppi jaan

1

<#10> RNA  
<#11> 1c  
<#12> DNA  
<#13> Artificial Sequence

•223: Description of Artificial Sequence:DNA probe R341A

<400> 121  
attaching object

11

1210- 122  
1211- 18  
1212- DNA  
1213- Artificial Sequence

<220>  
<223> Description of Artificial Sequence:DNA probe  
R343g3

<400> 122  
tcactcacgg gactcgat

2

<210> 123  
<211> 18  
<212> DNA  
<213> Artificial Sequence

4223  
4223- Description of Artificial Sequence:DNA probe  
35STCC

<400> 123  
gttccacatc ttccagg

3

<210> 124  
<211> 20  
<212> RNA  
<213> Artificial Sequence

\*2287 Description of Artificial Sequences in cDNA probe, edit1



<Z><Z>  
P1000000000000000

15

<Z><Z>  
S100000000000000  
S110000000000000  
<Z><Z> Artificial Sequence

<Z><Z>  
<Z><Z> Description of Artificial Sequence:DNA probe  
53K pAC

<Z><Z>  
<Z><Z> Description of Artificial Sequence:DNA probe  
53K pAC

16